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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,018	01/05/2007	Yukihiro Asa	SAWA0007	9943
22862 7590 64/17/2009 GLENN PATENT GROUP 3475 EDISON WAY, SUITE L			EXAMINER	
			PATIDAR, JAY M	
MENLO PARK, CA 94025			ART UNIT	PAPER NUMBER
			2862	
			MAIL DATE	DELIVERY MODE
			04/17/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Applicant(s) 10/566 019 ASA YUKIHIRO

Application No.

00" 4 " 0	10/300,010 ASA, 10/(IIII/O					
Office Action Summary	Examiner	Art Unit				
	JAY M. PATIDAR	2862				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL. WHICHEVER IS LONGER, FROM THE MAILING DV. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of the communication. If NO period for reply is specified above, the maximum statutory period to reply with the set or extended period for reply with 15 yet attate, Any reply recolored by the Office later than three months after the mailing carried patient term adjustment, See 37 CFR 1.70(4).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a repty be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. sely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
Responsive to communication(s) filed on						
Pa) ☐ This action is FINAL. 2b) ☐ This action is non-final.						
3)☐ Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
·						
4) Claim(s) 1-6 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-3.5 and 6</u> is/are rejected.						
·= · · · -	7)⊠ Claim(s) <u>4</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on 28 January 2009 is/are: a) accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
		(4) (6)				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received. 2. Certified against the priority documents have been received.						
Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage						
	•	d in this National Stage				
application from the International Bureau * See the attached detailed Office action for a list						
See the attached detailed Office action for a list	or the certified copies not receive	a.				
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal P	ite				
3) Information Disclosure Statement(s) (FTO/SE/CS)	5) Notice of Informal P	enu appidation				

Paper No(s)/Mail Date _____.

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 This communication is in response to applicant's amendment filed on January 28, 2009.

2 The drawings are objected to under 37 CFR 1.83(a) because they fail to clearly show an elastic body as described in the specification; the structure; shape or the function of the elastic body is now shown clearly. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the

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changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the second magnet located near a path of the magnetic material as set forth in claim 4 must be shown or the feature(s) canceled from the claim(s).

No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet"

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pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abevance.

4. Claims 1-3 are objected to because of the following informalities:

In claim 1, the phrase "wherein the magnetic material....of the magnet" (last para) is awkward; the meaning of said phrase is not clear;

In claim 2, the phrase "and then it....given position" is awkward; it is unclear as to what is moved, whether it is magnet or magnetic material; what makes it moved?

In claim 3, it is unclear as to what an elastic body is; how it structurally cooperates with other elements of the device; it is unclear as to how an elastic body works; the shape and its structure are not clearly understood.

Appropriate correction is required.

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1-3,5-6 (insofar as understood) are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 44-14970 in view of Sato (6,563,306).

As to claims 1, '970 disclose a magnetic material detection device wherein a magnet 3 is displaceable in the direction of magnetic poles (see fig. 3) and detecting means 2 for detecting displacement of the magnet 3 wherein the magnetic material detection device detects that a magnetic material 10 located outside the magnetic material detection device body 1 is located within a predetermined distance from the magnetic material detection device body. '970 does not show the boundary of poles of the magnet crosses the operating point of the detection means (i.e. Hall sensor) after displacement or a second magnet. Sato is cited to show this feature. Sato teaches to use a Hall element with a moving magnet (figs. 1-2). The boundary of the magnet poles crosses the operating point as shown in fig. 2. It is well known in the magnetic field related art to use a Hall element for detecting the moving magnet. The movement of the magnet alters the magnetic field density on the Hall sensing element. "Isodynamic lines of the magnet crosses the operating point" is nothing but the properties of the combination of the magnet and Hall element device. Consequently, it would have been obvious to one having ordinary skill in the art at the time the invention was made to mount the magnet in any way near the

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detecting means i.e. Hall sensing element as long as the magnetic field lines pass through the detecting means as taught by Sato to detect the relative position of the magnet.

As to claim 2, '970 shows returning means 4 for returning the magnet to its original position (figs. 1-3).

As to claim 3, '970 does not explicitly show an elastic body. However, '970 discloses a magnet returning means 4 for returning the magnet to the original position whose one end is connected to the magnet side and the other end is connected to the device body or housing 1 (note figs. 1-3, near 13). The use of either the elastic body or a coil spring for returning the magnet to its original position involves only routine skill in the art.

As to claim 5, the magnet 3 in '970 or in Sato (fig. 1) is a cylinder or rectangular shaped magnet (note figs. 1-3).

As to claim 6, the external object 10 is a magnetic material (see abstract).

- 6. Claim 4 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. The following is a statement of reasons for the indication of allowable subject matter: The prior art fails to show a support member with a first magnet

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on its first end and a second magnet on its second end wherein the second magnet is located near a path of the magnetic material.

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Note PTO-892.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAY M. PATIDAR whose telephone number is (571)272-2265. The examiner can normally be reached on M-Thur 8:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Assoud can be reached on 571-272-2210. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jay M. Patidar/ Primary Examiner Art Unit 2862